



## **ENGINEERING & CAPITAL IMPROVEMENTS DIVISION**

### **Capital Improvements Section**

### **Monthly Capital Projects Report** **April 2021**

Honorable Mayor & City Council,

For April's Report we have eliminated projects that did not have significant progress to report which is often the case during the winter months. However, since construction weather is upon us you can expect that May's Report will have more project activity.

We have eliminated all projects in the Planning Phase and some of the projects in the Design Phase from the report as progress is not substantial monthly for these types of projects.

We will be working on creating an Executive Summary that highlights key project updates for each month. Additionally, we'd like to consider a different approach for reporting some of the Planning & Design Phase projects on a quarterly basis. These changes will be forthcoming, and we hope they will make for a more meaningful tool for your use going forward.

With all these changes, we have maintained all active projects on the Map (attached) as reference. Please let us know if there are any project specific questions we can address.

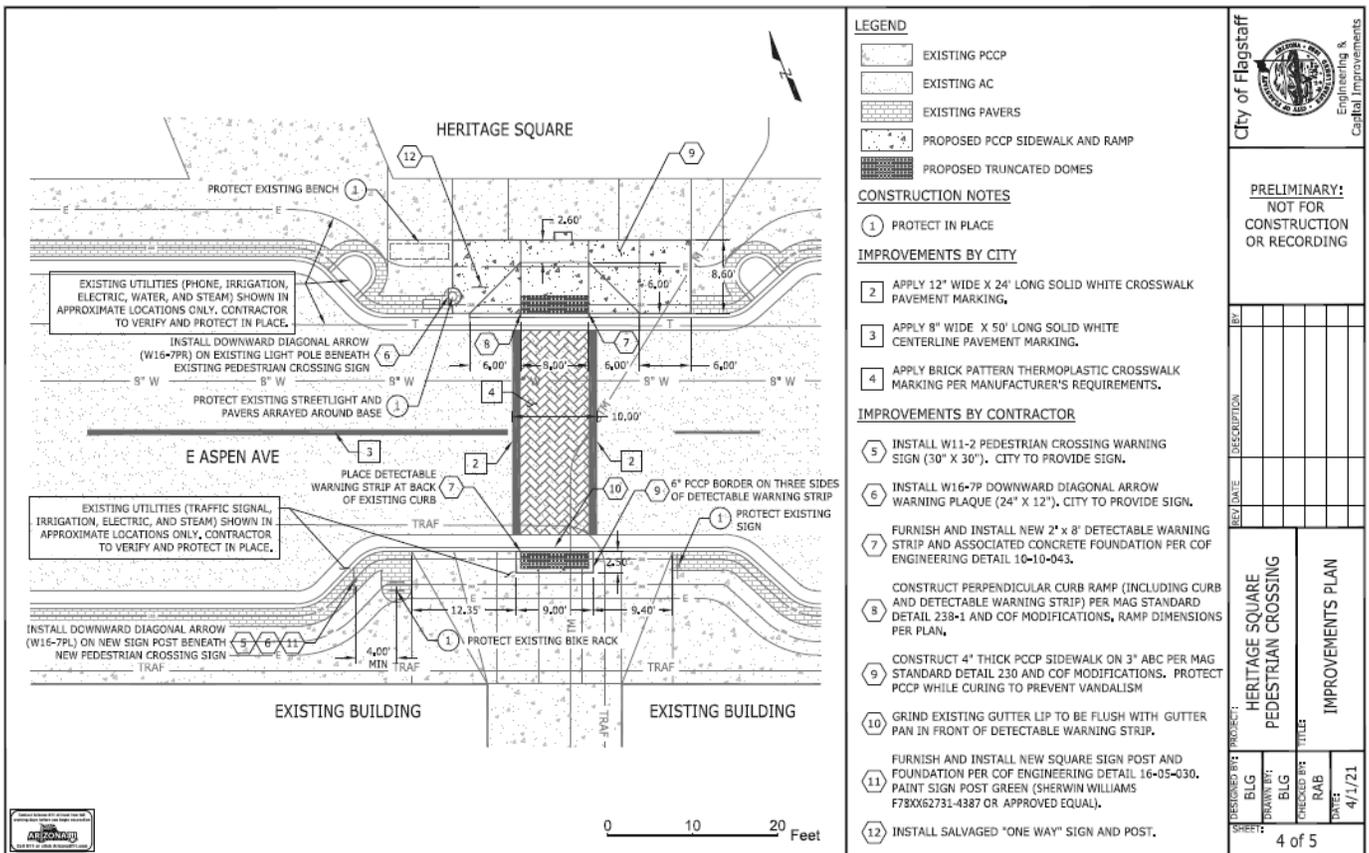
**Heritage Square Pedestrian Crossing** (CONSTRUCTION PHASE)

FUND: HIGHWAY USER REVENUE FUND

**Description** – In-house design and construction of a mid-block pedestrian crossing of Aspen Avenue that will provide an ADA compliant ramp into Heritage Square.

**Project Update:**

- Bids have been solicited from our four Job Order Contractors and are to be returned on April 23rd.
- Crosswalk design has been modified to allow decorative brick pattern as requested by the Downtown Business Association.
- We anticipate construction will be complete no later than May 14th.



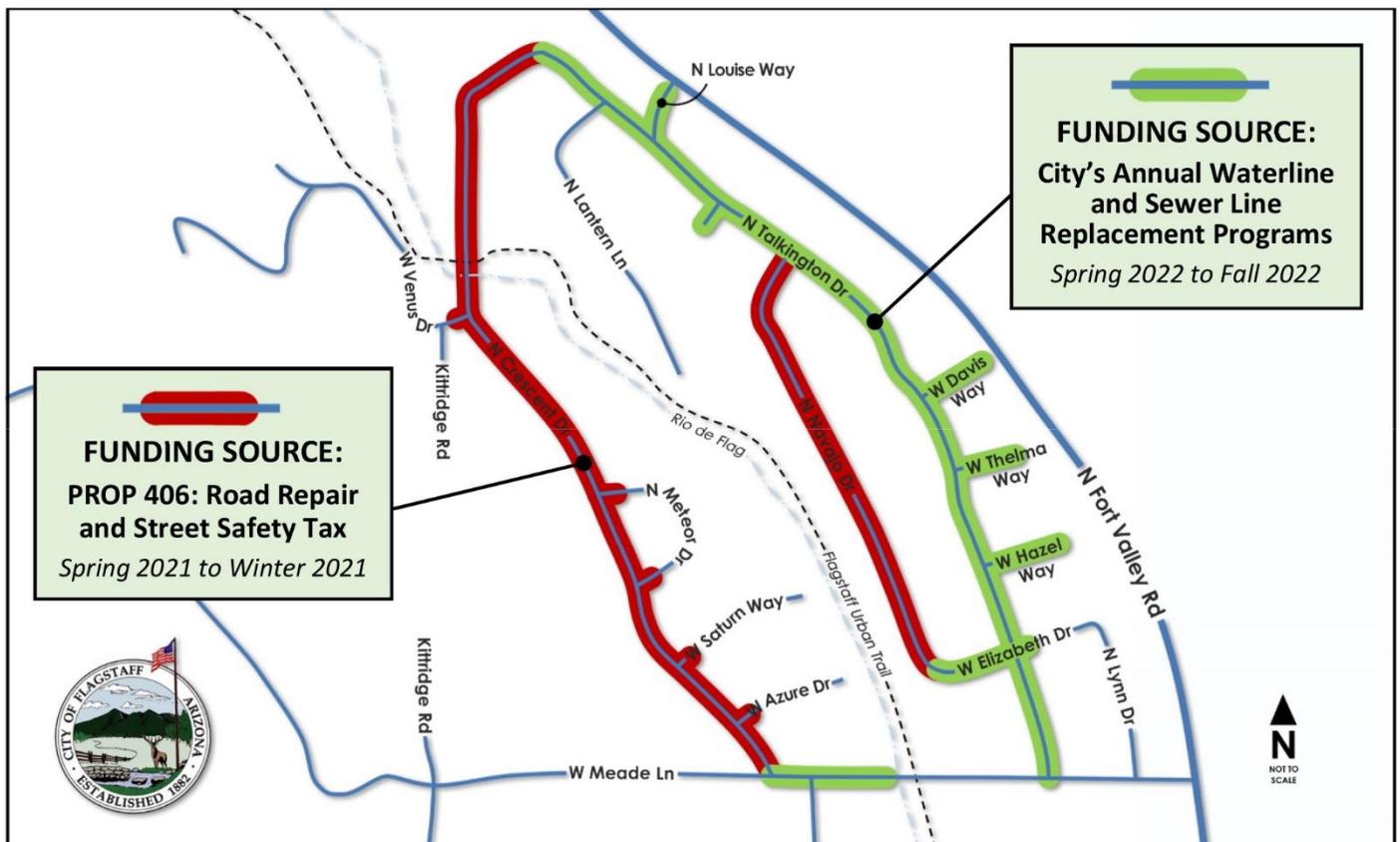
## **Coconino Estates Improvements Phase II** (CONSTRUCTION PHASE)

FUND: ROAD REPAIR & STREET SAFETY & ANNUAL WATERLINE AND SEWER LINE REPLACEMENT PROGRAMS

**Description** – This is a utility and roadway improvements project located on several streets in the Coconino Estates neighborhood as seen in the map below. Improvements on the streets generally consist of replacing all existing utility and roadway infrastructure. The utility improvements include replacing the existing water and sewer mains, water and sewer services, fire hydrants, and manholes. The roadway improvements include replacing the existing asphalt roadway, replacing rolled curb with vertical curb, constructing driveway ramps at driveway entrances, and replacing select sidewalk only where it currently exists on Crescent Drive. Sidewalk will NOT be installed where it does not currently exist. For additional information visit the Project website at [www.coconinoestates.com](http://www.coconinoestates.com).

### **Project Update:**

- Bids were opened on April 7.
- In May staff will be before the Council for the consideration of award of the construction contract.
- Construction is anticipated to start at the beginning of June.
- The City will not permit the successful contractor to utilize the same construction yard as is being used for the Coconino Estates Phase I project near Thorpe Park.



*Coconino Estates Improvements Phase II Project Limits – Funding - Schedule Map*

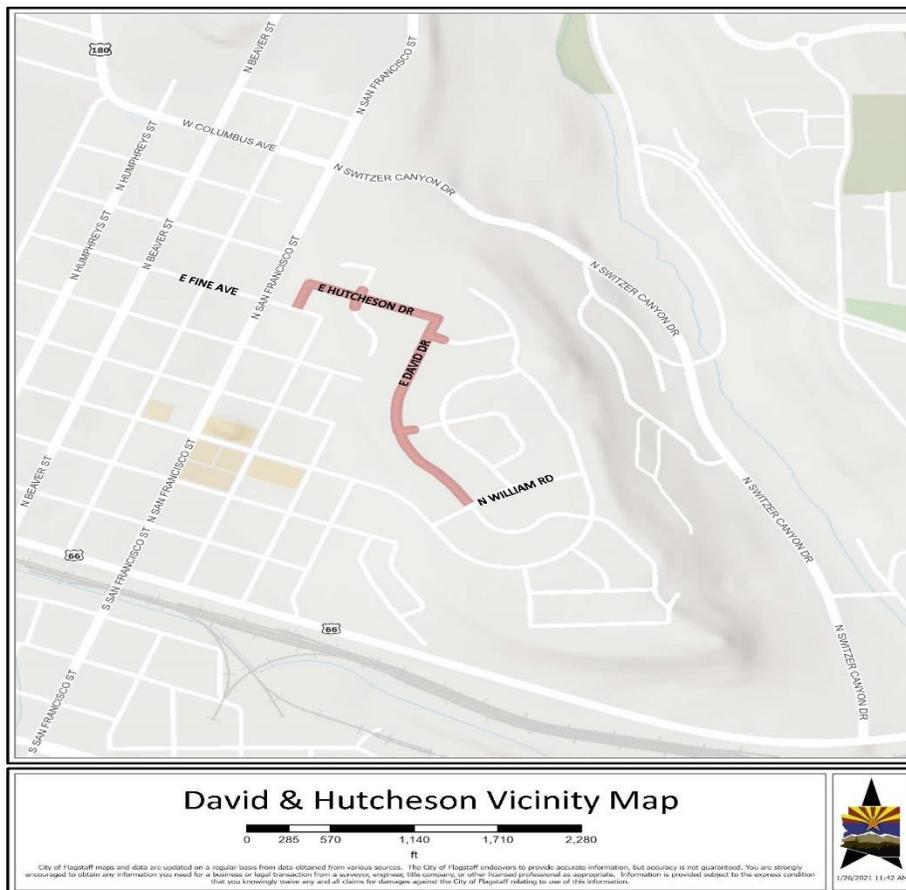
## **West Flag Improvements - David & Hutcheson** (CONSTRUCTION PHASE)

FUND: ROAD REPAIR & STREET SAFETY

**Description** - This is a utility and roadway improvements project located on David Drive and Hutcheson Drive as seen in the map below. The Project originally included Canyon Terrace and was bid as one project in the spring of 2020 but was pulled at the end of the bidding process given the economic and funding source uncertainties due to the COVID 19 Pandemic. It was decided to split the Project into two separate projects consisting of 1. David/Hutcheson and 2. Canyon Terrace. Improvements on the streets generally consist of replacing all existing utility and roadway infrastructure. The utility improvements include replacing the existing water and sewer mains (except for on David Drive), water and sewer services, fire hydrants, and manholes. The roadway improvements include replacing the existing asphalt roadway, replacing rolled curb with vertical curb on David Drive, and replacing select edge improvements (sidewalk, curb and gutter, etc.). For additional information visit the Project website at [www.Flagstaff.az.gov/westflagimprovements](http://www.Flagstaff.az.gov/westflagimprovements)

### **Project Update:**

- On March 2, 2021, City Council awarded the Project to Mountain High Excavating, LLC.
- Construction began on April 5<sup>th</sup> starting with potholing activities and sewer service replacements at the David/William intersection working north.
- David Drive and Hutcheson Drive will be closed to thru traffic from William Road to Fine Avenue, with detours posted around the closure.



*West Flag Improvements - David & Hutcheson Project Vicinity Map*

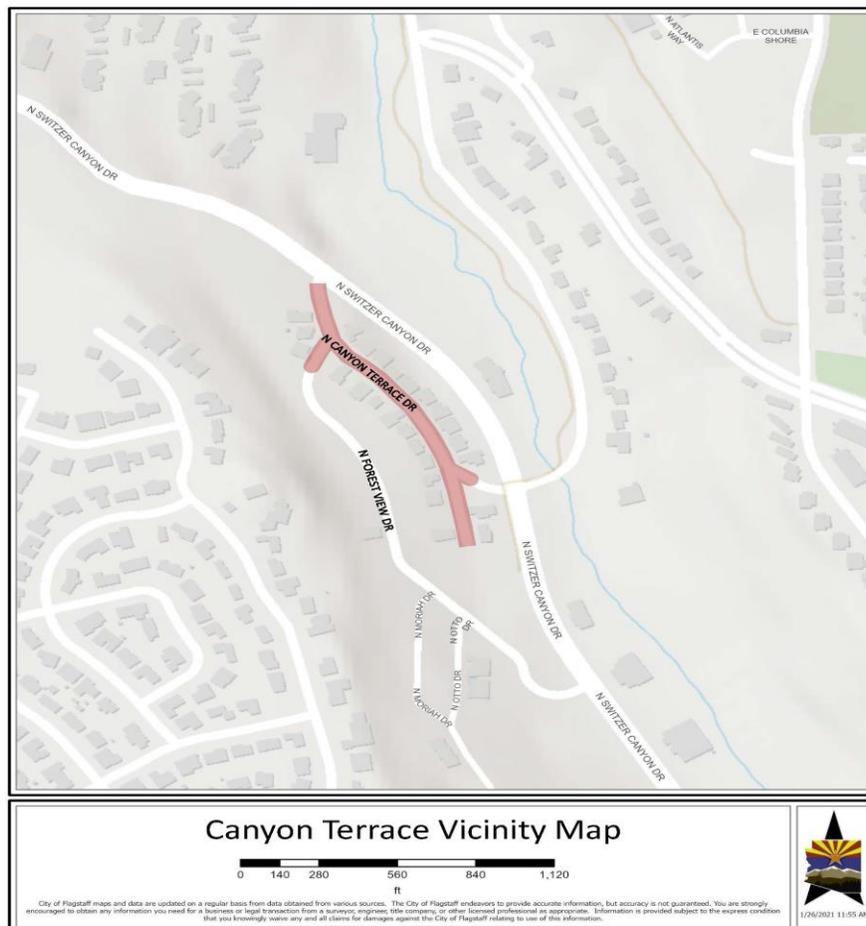
## **West Flag Improvements - Canyon Terrace** (CONSTRUCTION PHASE)

FUND: ROAD REPAIR & STREET SAFETY

**Description** - This is a utility and roadway improvements project located Canyon Terrace Drive as seen in the map below. The Project originally included David Drive and Hutcheson Drive and was bid as one project in the spring of 2020 but was pulled at the end of the bidding process given the economic and funding source uncertainties due to the COVID 19 Pandemic. It was decided to split the Project into two separate projects consisting of 1. David/Hutcheson and 2. Canyon Terrace. Improvements on the streets generally consist of replacing all existing utility and roadway infrastructure. The utility improvements include replacing the existing water and sewer mains, water and sewer services, fire hydrants, and manholes. The roadway improvements include replacing the existing asphalt roadway and select curb and gutter. For additional information visit the Project website at [www.Flagstaff.az.gov/westflagimprovements](http://www.Flagstaff.az.gov/westflagimprovements).

### **Project Update:**

- On March 2, 2021, City Council awarded the Project to Mountain High Excavating, LLC.
- Construction began on April 5<sup>th</sup> starting with potholing activities.



*West Flag Improvements - Canyon Terrace Project Vicinity Map*

## **Coconino Estates Improvements Phase I** (CONSTRUCTION PHASE)

FUND: ROAD REPAIR & STREET SAFETY

**Description** - This is a utility and roadway improvements project located in the Coconino Estates neighborhood on Beal Road from Rockridge to Fort Valley, Navajo Drive from Navajo Road to Murray, Whipple Road from Navajo Drive to McMillan, and Navajo Road from Navajo Drive to Fort Valley. Improvements on the streets generally consist of replacing existing infrastructure with new, including water and sewer mains, water and sewer services, fire hydrants, storm drains, streetlights, the entire asphalt roadway, and defective select edge improvements (curb & gutter, sidewalk, etc.), except for Whipple Road which will only receive a new water main. There will also be new infrastructure added consisting of underground electric lines for streetlighting and sidewalk on both sides of the street where it does not currently exist on Beal Road, Navajo Drive south of Beal, and on Navajo Road. For additional information visit the Project website at [www.coconinoestates.com](http://www.coconinoestates.com).

### **Project Update :**

A new way of communicating project information has just been started with the recent installation of a new project sign and banner prototype that include a QR code for the public to scan and view more information on the Project website.

### **Navajo Road (Construction Zone #1)**

- Majority of improvements are complete.
- Final signage, striping, and landscape restorations remain.
- Navajo Road is open to all traffic; however, temporary shoulder closures will occur as the remaining items of work occur.

### **Navajo Drive (Construction Zone #2)**

- Water and sewer main and service, electrical conduit, and streetlight installations are complete.
- Storm drain installations just south of the Beal intersection continue.
- Concrete curb and gutter, driveway, and sidewalk installations continue as weather allows.
- Paving is anticipated for May.
- Navajo Drive from Hopi Drive to Whipple Road is closed to thru traffic, with detours posted around the closure.

### **Beal Road (Construction Zone #3)**

- Water and sewer main and service installations in and west of the Beal/Navajo intersection to the Rio de Flag bridge are complete.
- Storm drain installations in and west of the Beal/Navajo intersection to the Rio de Flag bridge continue.
- Sewer main installations east of the Beal/Navajo intersection toward 180 continue.
- Beal Road is closed to thru traffic from Aztec to 180, with detours posted around the closure.

### **Spruce Trees at 510 W. Beal Road**

- The 510 W. Beal Road property owner was coordinated with on the scheduled removal of the easterly tree which occurred on April 5. Results of an Arborist's investigation indicate the westerly tree may be saved and our best efforts will be made to work around and save the west tree during construction.



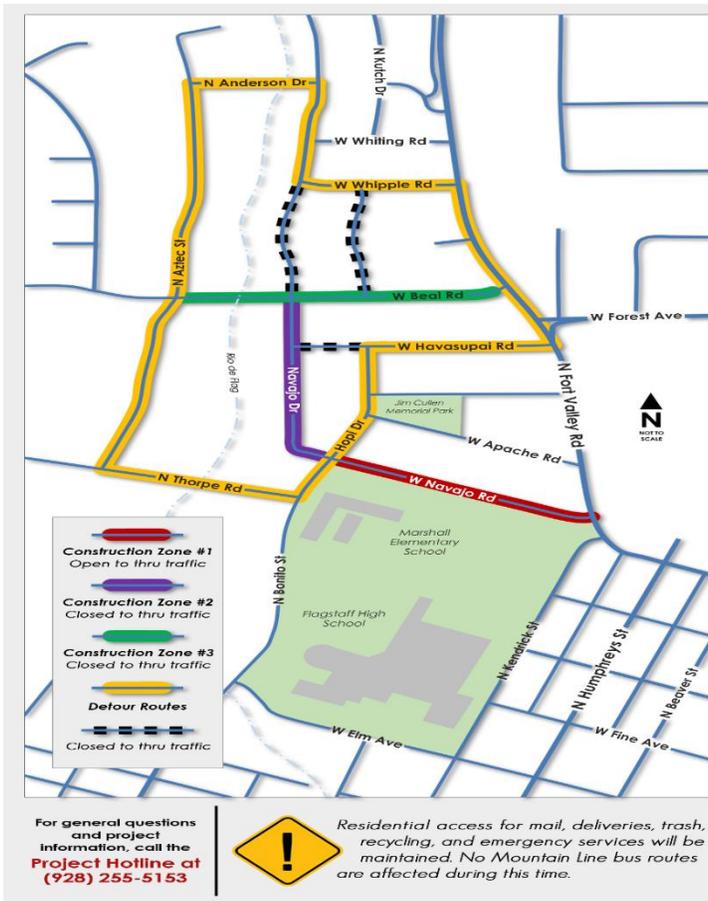
*Navajo Dr. north of Navajo Road, looking north at the curb, sidewalk, and driveway construction.*



*Beal Rd. At McMillan Rd., looking east at the sewer construction.*



*East spruce tree removed in front of the 510 W. Beal Rd. property.*



*Current road closures and detours.*



*Debut of new project sign.*

## **Fourth Street Reconstruction** (CONSTRUCTION PHASE)

FUND: TRANSPORTATION TAX (RENEWED TAX)

**Description** – The project is on Fourth Street from the Soliere Avenue intersection, southerly to just past the Sparrow Avenue intersection. The work will construct a new pavement section with two northbound and two southbound lanes and a center turn lane, northbound dedicated right-turn lanes from Fourth Street onto Sparrow Ave. and onto Soliere Avenue, new streetlights, new traffic signals at Soliere Avenue, new 12" water main and new 8" water main, curb and gutter and new sidewalk. The reconstruction work will connect with the recently completed bridge replacement project.

### **Project Update:**

- Existing asphalt pavement removed, processed, and re-used as roadway base material for new pavement.
- Significant bedrock encountered in trenching work, slowing progress.
- Base lift of asphalt on west side installed.
- Traffic has been shifted to the west side of Fourth St and work has begun on the east side.
- The Soliere Ave. intersection is currently closed for several weeks. Detours are posted and being monitored by Police for speeding through neighborhoods.



*Fourth Street Reconstruction –Work Continues*

## **Lone Tree Overpass Project** (Design Phase)

FUND: TRANSPORTATION

**Description** - The Lone Tree Overpass Project will provide a grade-separated crossing over the future Rio de Flag drainage and the BNSF Railway corridor from Butler Avenue to Route 66. Funding for this project is provided through voter approved bonds as designated in the 2018 Proposition 420.

### **Project Update:**

- BSNF and the City are developing the Preliminary Engineering Agreement, which is required to fund BNSF plan review of the project design documents. This contract will be presented to Council contingent on the cost.
- The following project coordination meetings have recently occurred: Public Involvement Plan kick off, Economic Impact Analysis kick off, ADOT Traffic Impact Analysis kick off, BNSF Railway kick off, and the Technical Working Group first meeting.
- The team made the first concept submittal to BNSF on March 26 with a follow up on April 7.
- Property acquisition meetings, appraisals, and environmental Phase I investigations are on-going.



*Lone Tree Overpass Concept Design*

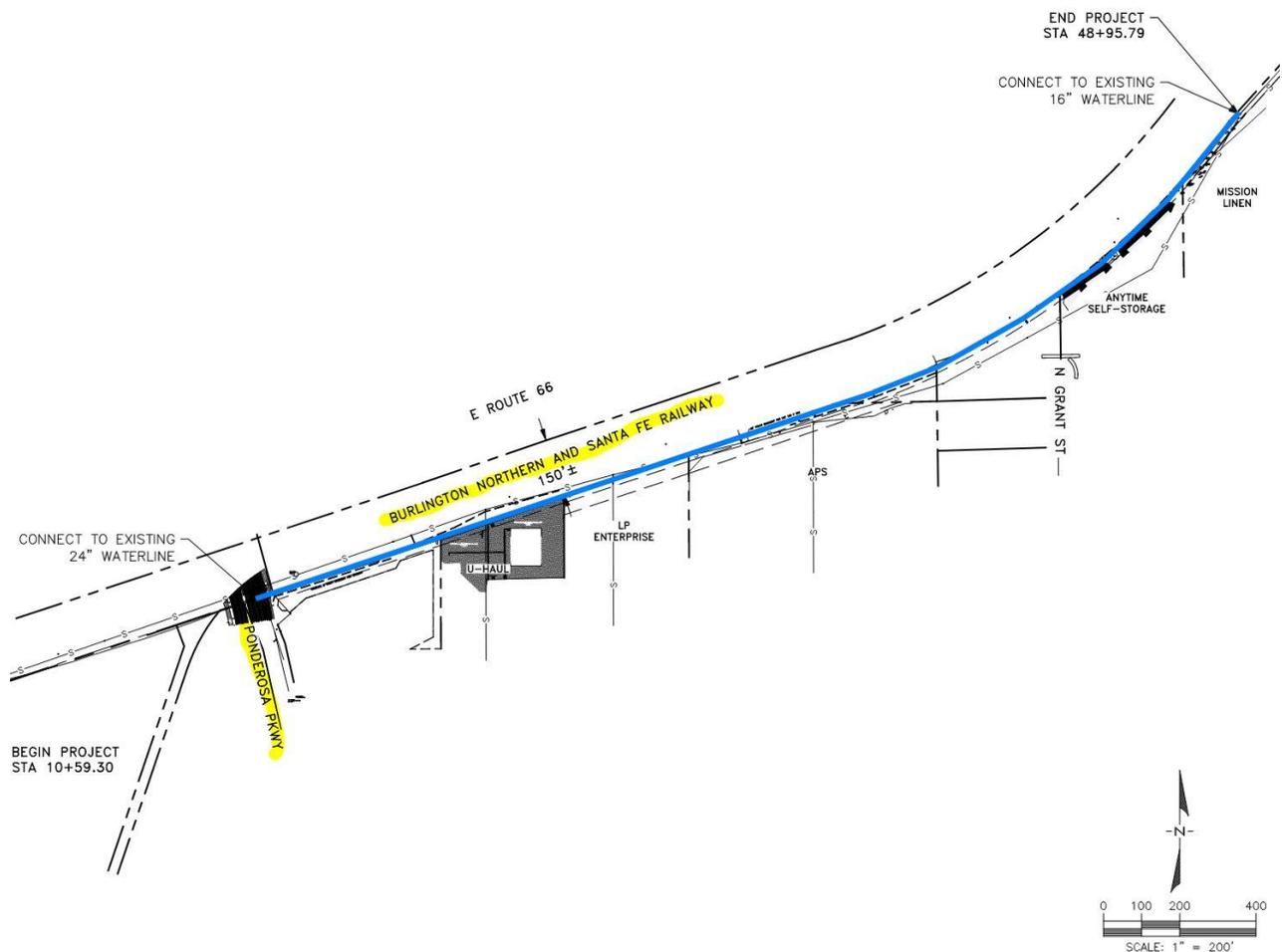
## Huntington Waterline Replacement (CONSTRUCTION PHASE)

FUND: AGING INFRASTRUCTURE

**Description** - The Project consists of installing 3,000 LF of new 16" ductile iron waterline, and associated roadway improvements. Included in the project will be new water services, fire hydrants and air release valves. The existing waterline in this area is over 60 years old. This project is part of the City's ongoing aging water infrastructure replacement program.

### **Project Update:**

- Bids have been received, Sellers and Sons Inc. has been identified as the lowest responsible and responsive bidder.
- The consideration and approval of the construction contract has been added to Council's working calendar for April 20<sup>th</sup>
- Capital Staff is in the process of public outreach to help coordinate removal of materials that have been stored in the existing easement by businesses that border the project's boundaries.
- Current working schedule has a proposed start of construction in late May of 2021.



*Vicinity Map of improvements, blue line represents the new 16" waterline*

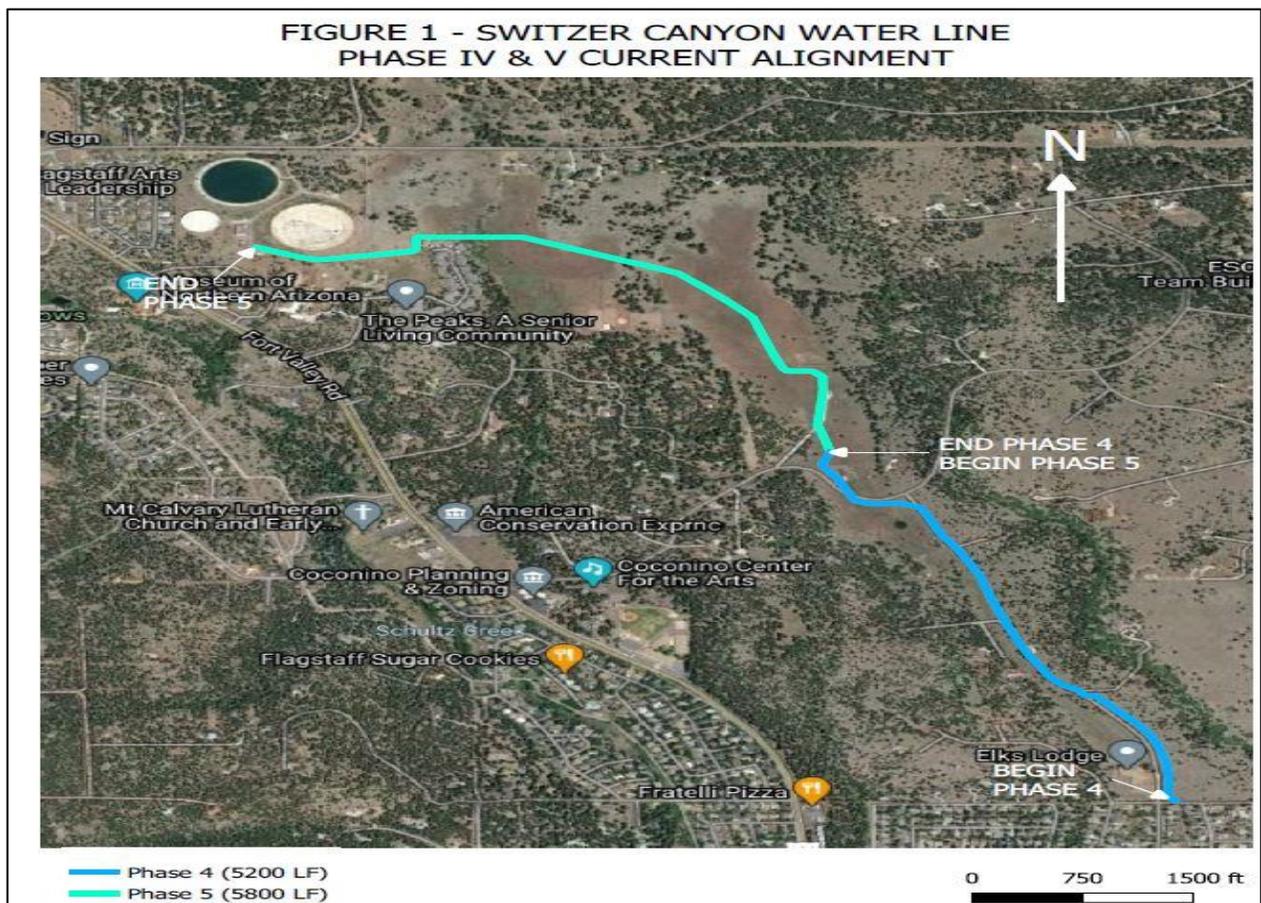
## Switzer Canyon Transmission Main Phase IV & V (Design Phase)

FUND: AGING INFRASTRUCTURE

**Description** – The Project consist of installing two new transmission mains, 24” and 16”, that will complete the distribution system, zone A and B, from the Downtown area to the City Reservoirs near Cheshire. The length of Phase IV and V is approximately 11,000 feet. The project is within City limits and the urban distribution service area within the County. Included in the project will be the two water mains with appurtenances, new bundled water meter/service locations and fire hydrants.

### **Project Update:**

- Property acquisition is underway with legal descriptions, environmental clearances, and site assessments.
- Staff is working with Real Estate and Attorney’s Office to schedule an Executive Session with Council to discuss Out-of-City Water Service topics that are critical to acquisition of the necessary property rights so the project can advance.
- Phase V is in the planning phase to define the final alignment.
- Construction of Phase IV is currently scheduled for fall of 2021, depending on acquisition of property rights.
- Construction of Phase V is anticipated for 2022.



*Switzer Canyon Water Main Replacement Project – Phase IV & Phase V*

## **Summit Waterline Replacement** (CONSTRUCTION PHASE)

FUND: AGING INFRASTRUCTURE

**Description** - Approximately 3,300 ft of new waterline, water services, fire hydrants, and pavement reconstruction. The City intends to replace the water infrastructure and pavement on: S. Walnut Street from Santa Fe Avenue to Coconino Avenue; S. Sycamore Street from Santa Fe Avenue to Grand Canyon Avenue; S. Spring Street from Montvale Avenue to Grand Canyon Avenue; W. Summit Avenue from Santa Fe Avenue to end; and W. Santa Fe Avenue from Walnut Street to Thorpe Road. Waterline only will be installed on W. Montvale Avenue from Santa Fe Avenue, to end. The existing waterlines in this area range from 58 to more than 90 years old. This project is part of the City's ongoing aging water infrastructure replacement program.

### **Project Update :**

- All underground work is now complete.
- Walnut St and Sycamore St have been paved, temporarily.
- Final pavement to be installed in Spring 2021.
- Project has been in a winter shutdown and will resume in the next few weeks.



*Summit Water Project-Trenches temporarily patched for winter*

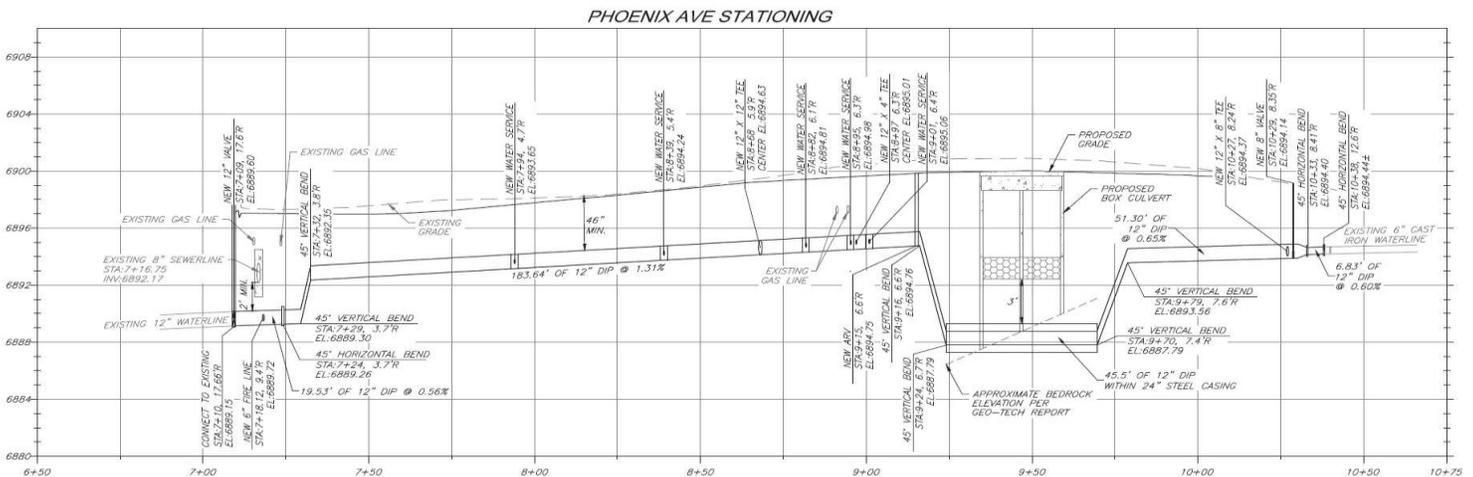
# Phoenix Avenue Bridge and Waterline Replacement (DESIGN PHASE)

FUND: STORMWATER & AGING INFRASTRUCTURE

**Description** - The project will replace the Rio de Flag box culvert (which runs beneath Phoenix Avenue and the Zani building, and functions as the Phoenix Ave bridge) with the appropriate conveyance structure and will upsized the current waterline to a 12" waterline in Phoenix Avenue from Mikes Pike to Beaver Street. Phoenix Avenue will be reprofiled and lowered to achieve a standard street section, roadway surface drainage issues will be addressed, edge improvements will be made as needed and the roadway will be repaved. The existing waterline in this area is over 114 years old. This project is part of the City's ongoing aging water infrastructure replacement program.

## Project Update:

- Project was advertised for bids on April 6<sup>th</sup>.
- Project duration is estimated at five months and will be completed by fall of 2021.
- The consideration and approval of the construction contract has been added to Council's working calendar for May 18<sup>th</sup>.
- Capital Staff is currently coordinating with all businesses and property owners in the area that will be impacted by the project.
- The bridge is stable and listed in "fair" condition by ADOT as of today. The bridge could degrade to a condition of "poor" at any time, at which time ADOT would reduce the load-carrying capacity of the bridge, restricting NAIPTA buses or possibly any vehicular traffic on Phoenix Ave. ADOT's next scheduled inspection of the bridge is in August 2021, however, ADOT could perform an inspection at any time.
- Staff looked at two temporary options to fix the bridge and the beam that supports Zani, neither provided significant cost savings. Due to the urgency and lack of structural integrity of the bridge and beam Staff decided to move forward with a full replacement using a similar size box culvert to convey current flows. A design using smaller culverts wouldn't be allowed at this time, current flow capacity cannot be reduced per FEMA regulation.



Proposed cross-section of Phoenix Ave. showing new 12" DIP waterline and box culvert

## Rio de Flag Flood Control Project (Design Phase)

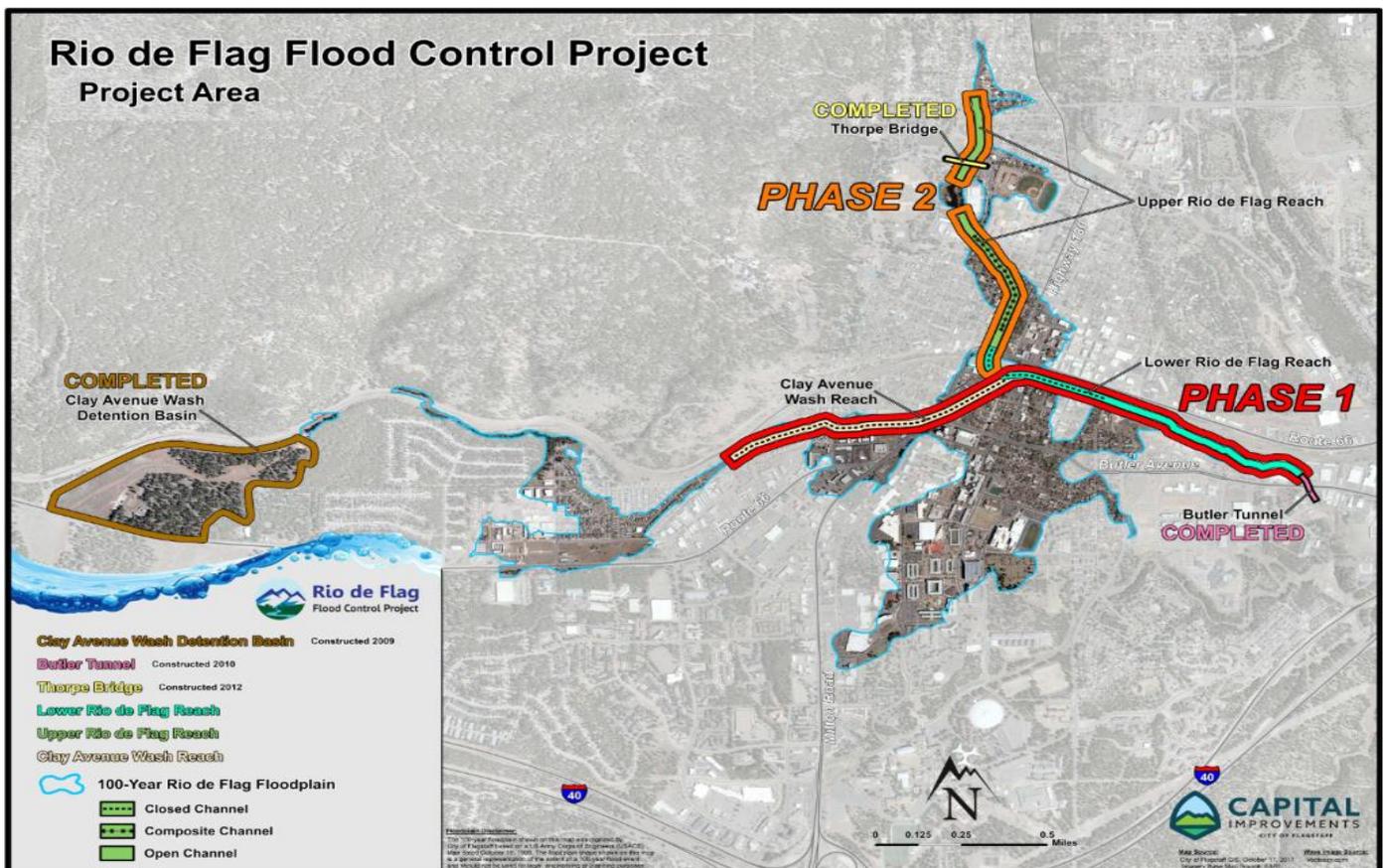
FUND: STORMWATER & AGING INFRASTRUCTURE

**Purpose** – The purpose of the Rio de Flag Flood Control Project is to remove the hazards associated with the hundred-year storm event, which include property damage, life safety concerns, and community economic impacts. From research conducted by the Army Corps, it was determined that a significant flood would damage approximately 1,500 structures valued at over \$916M and cause \$93M in economic damages, for a total impact of over \$1 Billion dollars.

### Project improvements will provide:

- Reduction of flooding damage and safety hazards.
- Opportunity for Downtown and Southside redevelopment.
- Elimination of flood insurance requirements and restrictive floodplain management regulations.

**Description** - Design consists of channel improvements along both the Rio de Flag and Clay Avenue Wash channels through central Flagstaff and includes a combination of underground concrete box culverts, open channel, and composite channel. The composite channel section has both an underground culvert to carry large volumes of water and a smaller open channel on top, which will provide an aesthetic element of flowing surface water during rainfall events. Total project length is approximately 5,000 feet.



Rio de Flag Project Location Map

**Current Status -**

- **Design** - Work continues on the construction documents and design completion between the City's and Army Corps' consultants, including the channel crossing on ADOT right-of-way at the Milton Road and Butler Avenue intersection, utility relocations, and design of the project on BNSF Railway property. The City received a submittal of the updated composite channel design for the Upper Reach. This submittal is under review with City staff and will be placed on the website for public review and comment in the future.
- **Real Estate** - Real Estate documents (legal descriptions, encumbrance maps, and utility easements) are currently being developed for property acquisition.
- **Public Involvement** - Several public involvement items have been created and posted to the project website, including:
  - o Photo simulations and video for the Flood Wall, Composite Channel, Open Channel (Clay Wash) and Open Channel (Lower Reach).
  - o A virtual meeting room that has project exhibits and information.
  - o A Southside Community Interview video.
  - o The link and web address for the Rio de Flag Public Information page is <https://www.flagstaff.az.gov/4189/Rio-De-Flag-Flood-Control>.
- **BNSF Railway** - The City received further details on the project mitigation measures on January 19, which are currently being evaluated.
- Arizona Congressman Greg Stanton addressed the House Transportation and Infrastructure Subcommittee on Railroads, Pipelines and Hazardous Materials regarding the Rio de Flag Flood Control Project, its importance to the community, and the need for continued focus and cooperation on this project from BNSF Railway. BNSF had a staff member testifying in the meeting that received the comments and responded that he will reply to the Congressman's questions. The statement can be accessed [HERE](#), and is at the 2:35:00 mark.
- On April 7 and 8, Mayor Deasy, Councilmember Shimoni, and Councilmember Aslan hosted BNSF Railway and Army Corps executives for discussions on the Rio de Flag Project. The Army Corps (including Brigadier General Paul Owen and Colonel Julie Balten) were taken on a field tour on April 7 to see the project area and the BNSF corridor. On April 8, BNSF joined the City and Corps to discuss the Rio crossing at the rail tracks, the mitigation measures, and other local projects associated with the corridor.



*Capital Improvements Project Manager Trevor Henry presents the Rio de Flag field area to (l to r) Flagstaff Mayor Paul Deasy, U.S. Army Corps Brigadier General Paul Owen, Colonel Julie Balten, Project Manager Priyanka Wadhawan, and Coral Evans, Regional Director of Northern Arizona for Senator Mark Kelly.*



*U.S. Army Corps Brigadier General Paul Owen and City Councilmember Austin Aslan survey a Rio de Flag project exhibit while visiting the Mars Hill Overlook.*



*Paul Cristina, BNSF Railway Director of Public Projects and System Design, presents rail mitigation information to the group in Flagstaff Council Chambers.*



*U.S. Army Corps Colonel Julie Balten engages the group in discussion in Flagstaff Council Chambers. To her left is David Van Dorpe, U.S. Army Corps Deputy District Engineer and to her right is Brigadier General Paul Owen.*



## **Route 66 ADOT Bridge Replacement Project** (CONSTRUCTION PHASE)

FUND: ARIZONA DEPARTMENT OF TRANSPORTATION

**Description** – Project consists of removing the existing concrete bridge that crosses the Rio de Flag channel and replacing with a precast box girder bridge with precast abutments. Included with the project are roadway approach slabs on either side of the new bridge, channel improvements with bank protection and revegetation mitigation measures. The purpose is to provide a new Route 66 bridge crossing at the Rio de Flag to serve Route 66/Milton.

### **Project Update:**

- The ADOT contractor, FNF Construction, is contracted to complete the work by October 2021.
- Traffic Control, lane closures and detours are in affect when construction is in progress.
- Contractor continues to work on the completion of the prefabricated abutment caps. Abutment no. 1 elements are complete and abutment no. 2 elements are in progress.
- Contractor has completed the removal of existing reinforced concrete obstructions conflicting with proposed drilled shafts and completed placement of temporary pavement.
- ADOT continues to update City staff on construction matters and will release information to the public through media releases.
- The contractor will implement a temporary lane closure of EB or WB Route 66 during work operations as necessary. ADOT will be monitoring the traffic volumes and will make alterations to increase traffic flow if needed.



*Prefabricated abutment caps falsework on the project waste slab*